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11/29/2001

04/11/2002

07/11/2002

08/15/2002

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INFORMATION DISCLOSURE CITATION (Use several shoots if necessary)

DOCUMENT NUMBER

2001/0045128

2002/0040601

2002/0091482

2002/0111717

2002/0128775

2002/0143491

2003/0018430

2,091,964

3,583,074

4,031,630

4,143,467

DOCUMENT NUMBER

Docket Number (Optional)	· · · · · · · · · · · · · · · · · · ·	App	lication	Number	F-947	
42616-0600 Applicant(s)			0/618	3,54 <u>9</u>		
Filing Date July 11, 2003			2862	Jalt		
S. PATENT DOCUMENTS					·	
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cCall et al.						<del></del>
yfe et al.					<u> </u>	·
akle, Jr. et al.					<u></u>	
cherzinger et al.						
rodie et al.					· 	•
cherzinger						
adetto et al.			·			<u>:</u>
"F. Carter						
),H. Baker et al.			\ <u>'</u>			
Fowler		· 		<u> </u>		•
Erspamer et al.		<u> </u>		\	<u> </u>	
FOREIGN PATENT DOCUMENT	S				<u> </u>	dation
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## LADETTO, Quentin, et al., "Combining Gy unknown, Geodetic Engineering Laboratory MA LADETTO, Quentia, "On Fact Navigation: Continuous Step Calibrations Using Both Complementary Recursive Prediction and Adaptive Kalman Filtering", date unknown, Geodetic Laboratory, Institute of Geomatics, Swiss Federal Institute of Technology, 6 pg. [No Date] TMK

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DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Drow line through citation if not in conformance and

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			July 11, 2003		2862	
			U.S. PATENT DOCUMENTS		<del></del>	· 
AMINER REF	DOCUMENT NUMBER	BATE	NAME	CLASS	SUBCLASS	PILING DATE IF APPROPRIATE
IMR	4,347,730	09/07/1982	Fisher et al.			
MR	4,611,293	09/09/1986	Hatch et al.			<del></del>
Thr	4,622,646	11/11/1986	Waller et al.			<del></del>
tna	4,656,750	04/14/1987	Pitt et al.	1		
TMA	4,809,007	02/28/1989	Hassenplug			
IML.	4,851,775	07/25/1989	Kim et al.	<del>                                     </del>		
TMR	4,887,081	12/12/1989	lihoshi et al.			
TAR	4,991,126	02/05/1991	Relter	<del>                                     </del>	1	
TMR	5,067,083	11/19/1991	Nakayama et al. Shimizu et al.	1		
TMR	5,115,238	05/19/1992	· · · · · · · · · · · · · · · · · · ·	++-	1-1-	
TMR	5,122,960	06/16/1992	Ooka		<u>                                     </u>	
	`	•	FOREIGN PATENT DOCUMENTS			
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				<u></u>	<u> </u>	<del>                                     </del>
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			OTHER DOCUMENTS (Includin	g Awhor, This,	ccelerometers <sup>il</sup>	Swim Federal
·	GABAGLIO, Vincer Institute of Technole	nt et al, "Real-Th ogy, Geodetic Engl	ne Calibration of LEngth of Steps w neering Laboratory , 6 pg. [Vo De	ite)		
TMR		· .				ode II Rossita
TMN	LADETTO, Quentle ENAC, Institut du I	n et al. , "Digital N Developpment Terr	tagnetic Compass and Gyroscope Ini itorial, Geodetic Laboratory, 10 pg.	[No Date		Tumme i harang
EXAMINER	hark	<del></del>	DATE CONSIDERED	7/19	14.	
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	NEA	RMATION DISCLOSURI	CITATION	42616-0600 Applicabi(s)		0/618,549	
•	HAPOI	(Use soveral sheets if necess	A174)	R. LEVI et al.		oup Art Unit	
•				Filing Date July 11, 200		2862	
			<u> </u>			2002	
				U.S. PATENT DOCUMENTS	<u></u>	1	FILIN DATE
MINER IITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF AFFROPRIATE
nh.		5,235,514	08/14/1993	Matsuzaki			
nr		5,239,264	08/24/1993	Hawks			<u> </u>
nr		5,287,295	02/15/1994	Ives et al.			· · · · · · · · · · · · · · · · · · ·
MR		5,287,297	02/15/1994	Ihara et al.			
ML		5,287,628	02/22/1994	Yamaguchi et al.	ļ		
MR	_	5,297,050	03/22/1994	Ichimura et al.  Matsuzaki		-	
MR	<del>•</del>	5,319,561	07/05/1994	Kato	+	-	· .
MA	1	5,327,348 5,331,563	07/19/1994	Masumoto et al.	+ + -		
nR		5,404,307	04/04/1995	Odagawa	1	1	
ns	1	5,424,953	06/13/1995	Masumoto et al.			
w V			<del> </del>	FOREIGN PATENT DOCUMENTS			•.
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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

DOCUMENT NUMBER

5,428,902

5,488,788

5,583,776

5,935,191

5,956,660

5,986,583

6,018,705

6,032,099

6,052,654

6,067,046

6,081,230

REF

DOCUMENT NUMBER

DATE

07/04/1995

02/06/1996

12/10/1996

08/10/1999

11/21/1999

11/16/1999

01/25/2000

02/29/2000

04/18/2000

05/23/2000

06/27/2000

NELL & WILHER L. L. P. 2			-918 P			······			
Docket Number (Optional) 42616-0600		Ar	Application Number 10/618,549						
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leumann		·				·			
lakano et al.		:							
Saudet et al.		· 	ļ						
Pernandez					:				
Gandet et al.						• • •			
Yichols			ļ	1					
Hoshino et al.		<u> </u>		<u>.l.                                   </u>		<u></u> _			
FOREIGN PATENT DOCUMENTS	`		1		· · · · · ·				
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Patent and Trademark Office "U.S. DEPARTMENT OF COMMERCE

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				U.S. PA	TENT DOCUMENTS		•••			•	
MDIER ,	REF	DOCUMENT NUMBER	DATE		NAME	CLAS	is	SUBCLA	22	PILING D IF APPROP	
MH	1	6,122,960	09/26/2000	Hutch	ngs et al.					<u> </u>	
11		6,132,391	10/17/2000	Onari	et 21.	_				· ·	
nR		6,145,389	11/14/2000	Ebelin	g et al.					·	<u>.                                      </u>
na		6,175,608	01/16/2001	Pyles	et al.						<del></del>
nR		6,204,807	03/20/2001	Odagi	ri et al.						<u></u>
ML		6,243,660	06/05/2001	Hsu e	al.					-	
11/2		6,282,496	08/28/2001	Chow	dhary						
MR		6,298,314	10/02/2001		adar et al.		<del>- , .</del>				
nk		6,301,964	10/16/2001	Fyfe						<u>.</u>	٠
1		6,305,221	10/23/2001	Hute		-	· · · ·	-		·	
41		6,366,855	04/02/2002		et al.	<u></u>		<u> </u>	<del>                                     </del>		
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. 1	INFOI	RMATION DISCLOS	URE CITATION	42616-0 AppHeast(s)	·	10/6	18,549		
		(Use several sheets if ne	cessary)	R. Levi et al. Filing Date July 11, 200		Group Art Uell 2862			
				U.S. PATENT DOCUMENTS			•		
ANIMER NITIAL	REF	DOCUMENT NUMBER	DATE	NAMB	CLASS	SUBCLASS	FILING DATE IP APPROPRIATE		
MR	i i	6,408,251	06/18/2002	Azuma			· · · · · · · · · · · · · · · · · · ·		
[4A		6,415,223	07/02/2002	Lin et al.	1		······································		
MR		6,513,381	02/04/2003	Fyfe et al.	_		· .		
TMB		6,522,266	02/18/2003	Soehren et al.	_				
(MA	1	6,546,336	04/08/2003	Matsuoka et al.		11-			
Inc		2003/0018430	01/23/2003	Ladetto et al.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		<del></del>		
TAK	i	2002/0089425	07/11/2002	Kubo et al.	<u> </u>	_			
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